

815 KAR 20:074. Installation standards for steel and wrought iron pipe.

RELATES TO: KRS Chapter 318

STATUTORY AUTHORITY: KRS 318.130

NECESSITY, FUNCTION, AND CONFORMITY: The office is directed by KRS 318.130 through the State Plumbing Code Committee to adopt and put into effect a State Plumbing Code. This administrative regulation relates to the proper installation of steel and wrought iron pipe and fittings and identifies the manufacturer's specification number of the material accepted in those installations.

Section 1. Materials. (1) Steel pipe shall be produced and labeled with the current ASTM specification number for welded wrought iron pipe or welded and seamless steel pipe.

(2) Schedule 40 shall be the minimum weight.

(3) For water distribution or soil, waste and vent, galvanized pipe shall be used.

(4) Copies of ASTM specifications identified in this administrative regulation may be obtained by writing the American Society for Testing Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103.

Section 2. Cutting and Reaming. (1) Pipe shall be cut to length with a square cut using pipe cutters, hacksaw or abrasive saw.

(2) If the cut-to-length pipe is to be threaded or prepared for a mechanical connection, it shall be reamed to the full inner diameter of the pipe.

Section 3. Jointing Techniques. (1) Screw joints.

(a) Screw joints shall be made by the use of a properly cut thread inserted into the female part of the fitting after applying the recommended pipe joint compound sparingly to the male threads.

(b) The screw joints shall be tightened hand-tight to check for alignment and then tightened enough to insure a tight leak-proof joint but shall not be over-tightened.

(2) Mechanical joints.

(a) Mechanical joints for hot and cold water shall not be used above ground unless the couplings are galvanized and the gaskets are ASTM D 2000, Grade N-R-615 BZ.

(b) The pipe ends shall be lubricated with an approved lubricant and the gasket shall be slipped over one (1) pipe end.

(c) The pipe ends shall be connected and the gasket shall be inserted into central spanning position.

(d) The housing clamps shall be placed over the gasket and the bolts and nuts tightened with a socket wrench.

Section 4. Hangers and Supports. (1) Hangers, anchors and supports shall be:

(a) Of sufficient strength to support the piping and its contents; and

(b) Securely attached to the building construction at intervals to support the piping and its contents. Provisions shall be made to allow for expansion, contraction, structural settlement and vibration.

(2) Vertical piping.

(a) Screwed piping shall be supported at every other story height and supports shall be of ferrous metal.

(b) Mechanical joint piping shall be supported at every story height and supports shall be of ferrous metal.

(3) Horizontal piping.

(a) Horizontal piping shall be supported at intervals which keep the piping in alignment and prevent sagging.

(b) Screwed and mechanical joint pipe one and one-half (1 1/2) inches and over shall be supported at twelve (12) foot intervals; one and one-quarter (1 1/4) inch and smaller shall be supported at eight (8) foot intervals.

(c) Supports shall be of ferrous metal. (9 Ky.R. 659; eff. 12-1-82; Am. 17 Ky.R. 2888; eff. 5-3-91; 19 Ky.R. 1003; 1389; eff. 12-8-92; TAm eff. 8-9-2007; 35 Ky.R. 2593; 36 Ky.R. 88; eff. 7-29-2009.)